

Phosphatase of *Proteus mirabilis*

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Abstract

Cell-free preparations of *Proteus mirabilis* contained a phosphatase (EC 3.1.3.1), whose activity surpassed that of alkaline phosphatase from *Escherichia coli*. Phosphatase was also found in the culture liquid of *P. mirabilis*. The composition of proteins displaying enzyme activity was assayed by polyacrylamide gel electrophoresis. Enzyme synthesis was studied at various stages of bacterial growth. Biosynthesis of phosphatase in *P. mirabilis* (similarly to that in other bacteria) was shown to be induced under conditions of inorganic phosphate deficiency in the medium.
